



M185XW01 V6

AU OPTRONICS CORPORATION

() Preliminary Specification (V) Final Specification

Module	18.5" Color TFT-LCD
Model Name	M185XW01 V6

Customer	Date
	0,0,
Approved by	
Note: This Specification change without	

Approved by	Date				
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Prepared by					
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Desktop Display Business Group / AU Optronics corporation					

document version 1.1 k.com



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Contents

1.0 Handling Precautions	4
2.0 General Description	
2.1 Display Characteristics	
2.2 Optical Characteristics	6
3.0 Functional Block Diagram	10
4.0 Absolute Maximum Ratings	
4.1 TFT LCD Module	11
4.2 Backlight Unit	
4.3 Absolute Ratings of Environment	
5.0 Electrical characteristics	12
5.1 TFT LCD Module	
5.1.1 Power Specification	
5.1.2 Signal Electrical Characteristics	
5.2 Backlight Unit	14
6.0 Signal Characteristic	15
6.1 Pixel Format Image	15
6.2 The input data format	16
6.3 Signal Description	
6.4 Timing Characteristics	19
6.5 Timing diagram	20
6.6 Power ON/OFF Sequence	21
7.0 Connector & Pin Assignment	22
7.1 TFT LCD Module	22
7.1.1 Pin Assignment	22
7.2 Recommend connector for Backlight Unit	23
7.2.1 Pin assignment	23
8.0 Reliability Test	
9.0 Shipping Label	

10.0 Mechanical Characteristics







M185XW01 V6

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Record of Revision

Ve	rsion and	Pag	Old description	New Description	Remark
	Date	е	Old description	New Description	Remark
0.1	2009/6/8	All	First Edition for Customer	N/A	
1.0	2009/7/2	5	2.1 Display Characteristics	2.1 Display Characteristics	
			Weight	Weight	
			1330	1330±50g	
1.0	2009/7/2	10	I/F PCB Interface:	I/F PCB Interface:	
			FI-XB30SSRL-HF16(JAE)/MSCKT2407P3	FI-XB30SRL-HF11(JAE) /	
			0HB(信盛)	093F30-B0T01A(CHIEF LAND)	
1.0	2009/7/2	11	4.2 Backlight Unit	4.2 Backlight Unit	
			LED current	LED current	
			Min:n/a Max:20	Min: 19 Max:21	
1.0	2009/7/2	12	5.1.1 Power Specification	5.1.1 Power Specification	
			Input Current	Input Current	
			Typ:0.6 Max:0.7	Typ:0.84 Max:1	
			Allowable Logic/LCD Drive Ripple Voltage	Allowable Logic/LCD Drive Ripple Voltage	
			Max:200	Max:350	
1.0	2009/7/2	14	5.2 Backlight Unit	5.2 Backlight Unit	
			LED Operation Current	LED Operation Current	
			Min:n/a Typ:n/a Max:20	Min:19 Typ:20 Max:21	
			LED Operation Voltage	LED Operation Voltage	
			Typ:42.9 Max:44.2	Тур:44.8 Мах:47.6	
			BLU Power consumption	BLU Power consumption	
			Typ:5.5 Max:5.7	Typ:5.4 Max:6.0	
			LED life Time	LED life Time	
			Typ:n/a	Typ:25,000	
1.0	2009/7/2	18	6.3 Signal Description	6.3 Signal Description	
			Signal Drawing	Signal Drawing	
			Plus FFC drawing	Remove FFC drawing	
1.0	2009/7/2	19	H-section	H-section	
			Blanking	Blanking	
			Min:50	Min:104	
			Period Min:1482	Period Min:1470	
			Note2:	Note2:	
			Clock Frequency 90MHz(Max.)= 1416(H)*847(V)*75Hz	Clock Frequency 90MHz(Max.)= 1470(H)*816(V)*75Hz	
1.1	2009/9/4	14	V _{LB} Light Bar Operation Voltage Min:	V _{LB} Light Bar Operation Voltage Min:39.2	
			BLU Power consumption	BLU Power consumption	
			Min:n/a	Min:4.4	





M185XW01 V6

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1.0 Handling Precautions

- 1) Since front polarizer is easily damaged, pay attention not to scratch it.
- 2) Be sure to turn off power supply when inserting or disconnecting from input connector.
- 3) Wipe off water drop immediately. Long contact with water may cause discoloration or spots.
- 4) When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth.
- 5) Since the panel is made of glass, it may break or crack if dropped or bumped on hard surface.
- 6) Since CMOS LSI is used in this module, take care of static electricity and insure human earth when handling.
- 7) Do not open or modify the Module Assembly.
- 8) Do not press the reflector sheet at the back of the module to any directions.
- 9) In case if a Module has to be put back into the packing container slot after once it was taken out from the container, do not press the center of the LED lightbar edge. Instead, press at the far ends of the LED light bar edge softly. Otherwise the TFT Module may be damaged.
- 10) At the insertion or removal of the Signal Interface Connector, be sure not to rotate nor tilt the Interface Connector of the TFT Module.
- 11) After installation of the TFT Module into an enclosure, do not twist nor bend the TFT Module even momentary. At designing the enclosure, it should be taken into consideration that no bending/twisting forces are applied to the TFT Module from outside. Otherwise the TFT Module may be damaged.
- 12) Small amount of materials having no flammability grade is used in the LCD module. The LCD module should be supplied by power complied with requirements of Limited Power Source (IEC60950 or UL1950), or be applied exemption.





M185XW01 V6

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2.0 General Description

This specification applies to the 18.5 inch-wide Color a-Si TFT-LCD Module M185XW01. The display supports the WXGA - 1366(H) \times 768(V) screen format and 16.7M colors (RGB 6-bits + Hi-FRC data). All input signals are 1-channel LVDS interface and this module doesn't contain an inverter board for backlight.

2.1 Display Characteristics

The following items are characteristics summary on the table under 25℃ condition:

ITEMS	Unit	SPECIFICATIONS			
Screen Diagonal	[mm]	470.1(18.51")			
Active Area	[mm]	409.8 (H) x 230.4 (V)			
Pixels H x V		1366(x3) x 768			
Pixel Pitch	[um]	300 (per one triad) × 300			
Pixel Arrangement		R.G.B. Vertical Stripe			
Display Mode		TN Mode, Normally White			
White Luminance (Center)	[cd/m ²]	250 cd/m ² (Typ.)			
Contrast Ratio		1000 (Typ.)			
Optical Response Time	[msec]	5ms (Typ., on/off)			
Nominal Input Voltage VDD	[Volt]	+5.0 V (Typ)			
Power Consumption	[Watt]	10W (Typ.)			
(VDD line + LED line)		(without inverter, all black pattern)			
Weight	[Grams]	1330±50g			
Physical Size	[mm]	430.4 (W) x 254.6 (H) Typ. x 9.9 (D) Typ			
**		One channel LVDS			
Support Color		16.7M colors (RGB 6-bit + Hi_FRC)			
Surface Treatment		Anti-Glare, 3H			
Temperature Range					
Operating	[°C]	0 to +50			
Storage (Shipping)	[°C]	-20 to +60			
RoHS Compliance		RoHS Compliance			



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2.2 Optical Characteristics

The optical characteristics are measured under stable conditions at 25 $^{\circ}\text{C}$:

ltem	Unit	Conditions	Min.	Тур.	Max.	Note
Viewing Angle	[degree]	Horizontal (Right) CR = 10 (Left)	150	170	-	
Viewing Angle	[degree]	Vertical (Up) CR = 10 (Down)	140	160	-	2
Contrast ratio		Normal Direction	600	1000	-	3
		Raising Time (T _{rR})	-	3.6	5.7	
Response Time	[msec]	Falling Time (T _{rF})	-	1.4	2.3	4
		Raising + Falling	-	5	8	
		Red x	0.603	0.633	0.663	5
		Red y	0.316	0.346	0.376	
Color / Chromaticity		Green x	0.294	0.324	0.354	
Coordinates (CIE)		Green y	0.582	0.612	0.642	
		Blue x	0.118	0.148	0.178	
		Blue y	0.036	0.066	0.096	
		White x	0.283	0.313	0.343	
Color Coordinates (CIE) White		White y	0.299	0.329	0.359	
Central Luminance	[cd/m ²]		200	250	-	6
Luminance Uniformity	[%]		65	70	-	7
Crosstalk (in 60Hz)	[%]				1.5	8
Flicker	dB				-20	9

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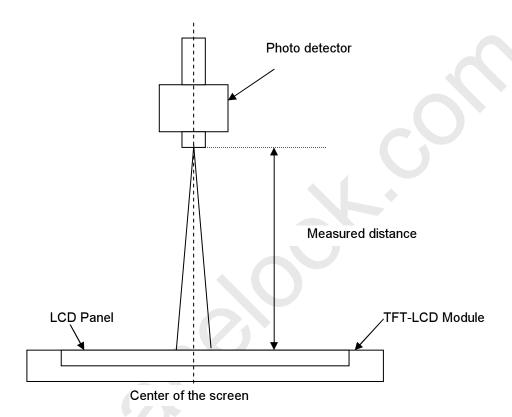


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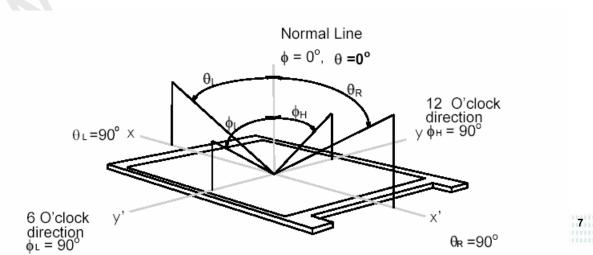
Note 1: Measurement method

The LCD module should be stabilized at given temperature for 30 minutes to avoid abrupt temperature change during measuring (at surface 35). In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 30 minutes in a stable, windless and dark room.



Note 2: Definition of viewing angle measured by ELDIM (EZContrast 88)

Viewing angle is the measurement of contrast ratio ≥10, at the screen center, over a 180° horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as follows; 90° (θ) horizontal left and right and 90° (Φ) vertical, high (up) and low (down). The measurement direction is typically perpendicular to the display surface with the screen rotated about its center to develop the desired measurement viewing angle.



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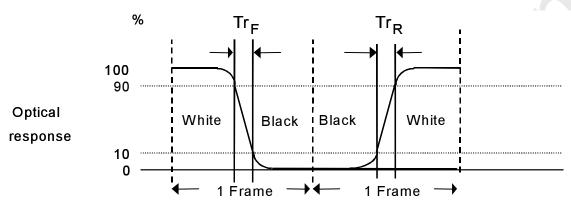
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Note 3: Contrast ratio is measured by TOPCON SR-3

Note 4: Definition of Response time measured by Westar TRD-100A

The output signals of photo detector are measured when the input signals are changed from "Full Black" to "Full White" (rising time, Tr_R), and from "Full White" to "Full Black" (falling time, Tf_F), respectively. The response time is interval between the 10% and 90% (1 frame at 60 Hz) of amplitudes.

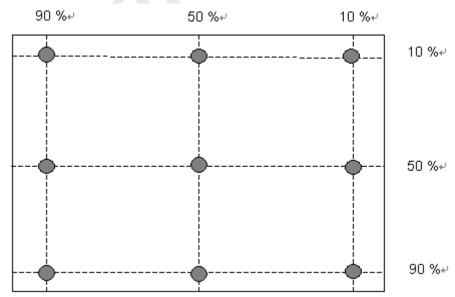


 $Tr_R + Tf_F = 5 \text{ msec (typ.)}.$

Note 5: Color chromaticity and coordinates (CIE) is measured by TOPCON SR-3

Note 6: Central luminance is measured by TOPCON SR-3

Note 7: Luminance uniformity of these 9 points is defined as below and measured by TOPCON SR-3



Uniformity = $\frac{\text{Minimum Luminance in 9 points (1-9)}}{\text{Maximum Luminance in 9 Points (1-9)}}$

Note 8: Crosstalk is defined as below and measured by TOPCON SR-3





M185XW01 V6

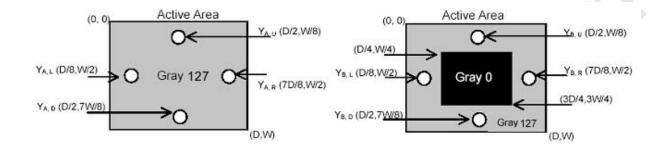
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 $CT = | YB - YA | / YA \times 100 (\%)$

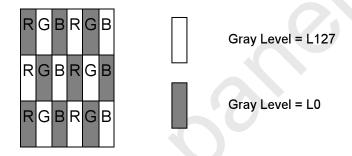
Where

YA = Luminance of measured location without gray level 0 pattern (cd/m2)

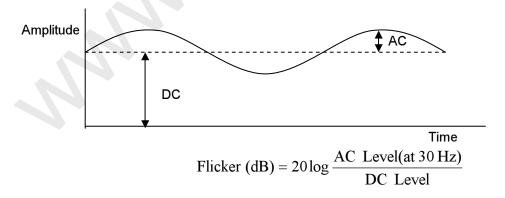
YB = Luminance of measured location with gray level 0 pattern (cd/m2)



Note 9: Test Patern: Subchecker Pattern measured by TOPCON SR-3



Method: Record dBV & DC value with TRD-100





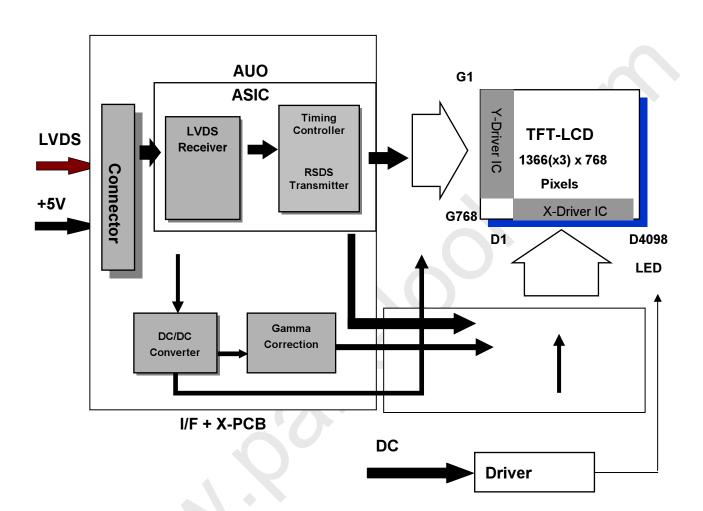


M185XW01 V6

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3.0 Functional Block Diagram

The following diagram shows the functional block of the 18.5 inch Color TFT-LCD Module:



I/F PCB Interface:

FI-XB30SRL-HF11(JAE) / 093F30-B0T01A(CHIEF LAND)

Mating Type:

FI-X30HL (JAE)(Locked Type)





M185XW01 V6

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4.0 Absolute Maximum Ratings

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Absolute maximum ratings of the module are as following:

4.1 TFT LCD Module

Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive Voltage	VDD	4.5	+5.5	[Volt]	Note 1,2

4.2 Backlight Unit

Ī	ltem	Symbol	Min	Max	Unit	Conditions
	LED Current	ILED	19	21	[mA]	Note 1,2

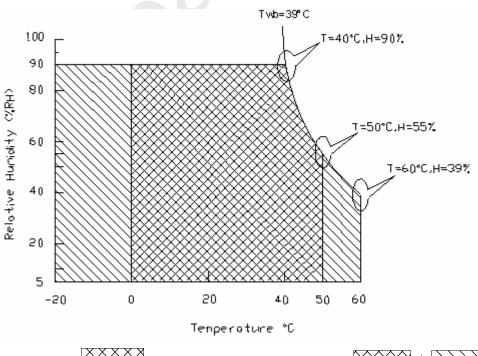
4.3 Absolute Ratings of Environment

Item	Symbol	Min.	Max.	Unit	Conditions
Operating Temperature	TOP	0	+50	[°C]	
Operation Humidity	HOP	5	90	[%RH]	Note 3
Storage Temperature	TST	-20	+60	[°C]	Note 3
Storage Humidity	HST	5	90	[%RH]	

Note 1: With in Ta (25°C)

Note 2: Permanent damage to the device may occur if exceeding maximum values

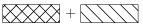
Note 3: For quality perfermance, please refer to AUO IIS(Incoming Inspection Standard).



Operating Range



Storage Range



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11





M185XW01 V6

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5.0 Electrical characteristics

5.1 TFT LCD Module

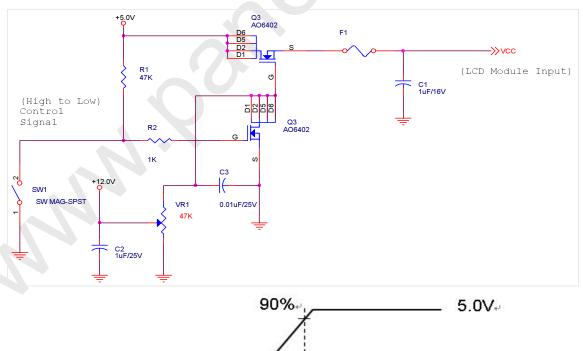
5.1.1 Power Specification

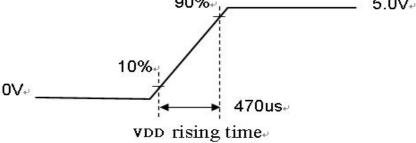
Input power specifications are as following:

Symbol	Parameter	Min	Тур	Max	Unit	Conditions
VDD	Logic/LCD Drive Voltage	4.5	5.0	5.5	[Volt]	+/-10%
IDD	Input Current	-	0.84	1	[A]	VDD= 5.0V, All Black Pattern At 60Hz,
PDD	VDD Power	-	4.2	5	[Watt]	VDD= 5.0V, All Black Pattern At 60Hz
IRush	Inrush Current	-	-	3	[A]	Note 1
VDDrp	Allowable Logic/LCD Drive Ripple Voltage	-	-	350	[mV] p-p	VDD= 5.0V, All Black Pattern At 60Hz

Note 1: Measurement conditions:

The duration of rising time of power input is 470us.









M185XW01 V6

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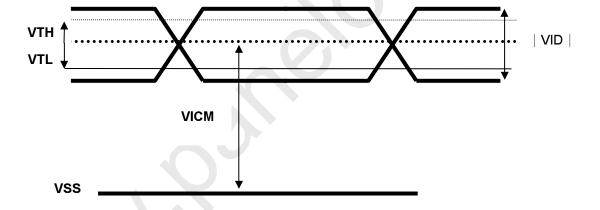
5.1.2 Signal Electrical Characteristics

Input signals shall be low or Hi-Z state when VDD is off. Please refer to specifications of SN75LVDS82DGG (Texas Instruments) in detail.

Characteristics of each signal are as following:

Symbol	Parameter	Min	Тур	Max	Units	Condition
VTH	Differential Input High		+50	+100	[m\/]	VICM = 1.2V
VIII	Threshold	-	+50	+100	[mV]	Note 1
\	Differential Input Low	100	50		[120]	VICM = 1.2V
VTL	Threshold	-100	-50	_	[mV]	Note 1
VID	Input Differential Voltage	100	400	600	[mV]	Note 1
VICM	Differential Input Common	14.0	14.2	14.4	ПД	VTH-VTL = 200MV (max)
VICM	Mode Voltage	+1.0	+1.2	+1.4	[V]	Note 1

Note 1: LVDS Signal Waveform







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M185XW01 V6

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5.2 Backlight Unit

Parameter guideline for LED driving is under stable conditions at 25°C (Room Temperature):

Symbol	Parameter	Min.□	Тур.	Max.	Unit	Note
IR _{LED}	LED Operation Current	19	20	21	[mA]	
V _{LB}	Light Bar Operation Voltage (for reference)	39.2	44.8	47.6	[Volt] Note 1	Operating with fixed
P _{BLU}	BLU Power consumption (for reference)	4.4	5.4	6.0	[Watt]	driving current
LT _{LED}	LED life Time		25,000		[Hour] Note 2	

Note 1: The value showed in the table is one light bar's operation voltage.

Note 2: Based on the operating current is 20mA.





M185XW01 V6

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6.0 Signal Characteristic

6.1 Pixel Format Image

Following figure shows the relationship of the input signals and LCD pixel format.

		1			2			1	36	5	13	366	5
1st Line	R	G	В	R	G	В		R	G	В	R	G	В
		•			:				•			•	
		•			•				•			•	
		:							•			:	
		•							•			•	
		•					:		•			•	
		÷			:		:		:			Ċ	
		•			•		•		•			•	
					:				•			•	
768 Line	R	G	В	R	G	В		R	G	В	R	G	В

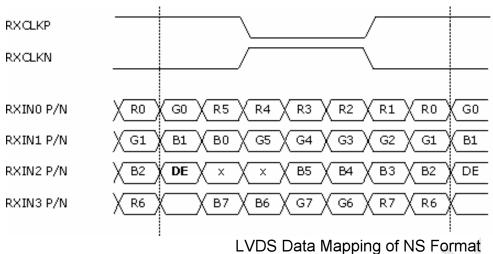




M185XW01 V6

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6.2 The input data format



8 BIT COLOR BIT ORDER		
MSB	R7	
	R6	
	R5	
	R4	
	R3	
	R2	
	R1	
LSB	R0	

RXCLKP		
RXCLKN		
RXINO P/N	X R2 X G2 X R7 X R6 X R5 X R4 X R3 X R2	G2
RXIN1 P/N	(G3) B3 (B2) G7 (G6) G5 (G4) G3	В3
RXIN2 P/N	\(\begin{align*} \text{B4} \text{ \text{DE}} \times \times \text{X} \times \text{B7} \text{ \text{B6}} \text{ \text{B5}} \text{ \text{B4}} \\ \end{align*}	DE
RXIN3 P/N	X RO X B1 X B0 X G1 X G0 X R1 X R0 X	

8 BIT COLOR BIT ORDER					
MSB	R7				
	R6				
	R5				
	R4				
	R3				
	R2				
	R1				
LSB	RO				

LVDS Data Mapping of JEIDA Format

Note1: Normally, DE, VS, HS on EVEN channel are not used.

Note2: 8-bits signal input.





M185XW01 V6

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6.3 Signal Description

The module using one LVDS receiver SN75LVDS82(Texas Instruments). LVDS is a differential signal technology for LCD interface and high speed data transfer device. LVDS transmitters shall be SN75LVDS83(negative edge sampling). The first LVDS port(RxOxxx) transmits odd pixels while the second LVDS port(RxExxx) transmits even pixels.

PIN#	SIGNAL NAME	DESCRIPTION
1	NC	No contact (For AUO internal use)
2	NC	No contact (For AUO internal use)
3	NC	No contact (For AUO internal use)
4	GND	Power Ground
5	RXIN0-	Negative LVDS differential data input (0)
6	RXIN0+	Positive LVDS differential data input (0)
7	GND	Power Ground
8	RXIN1-	Negative LVDS differential data input (1)
9	RXIN1+	Positive LVDS differential data input (1)
10	GND	Power Ground
11	RXIN2-	Negative LVDS differential data input (2)
12	RXIN2+	Positive LVDS differential data input (2)
13	GND	Power Ground
14	RXCLKIN-	Negative LVDS differential clock input (clock)
15	RXCLKIN+	Positive LVDS differential data input (clock)
16	GND	Power Ground
17	RXIN3-	Negative LVDS differential data input (3)
18	RXIN3+	Positive LVDS differential data input (3)
19	GND	Power Ground
20	NC	No contact (For AUO internal use)
21	NC	No contact (For AUO internal use)
22	NC	No contact (For AUO internal use)
23	GND	Power Ground
24	GND	Power Ground
25	GND	Power Ground
26	vcc	+5V power supply
27	vcc	+5V power supply
28	vcc	+5V power supply
29	VCC	+5V power supply
30	vcc	+5V power supply

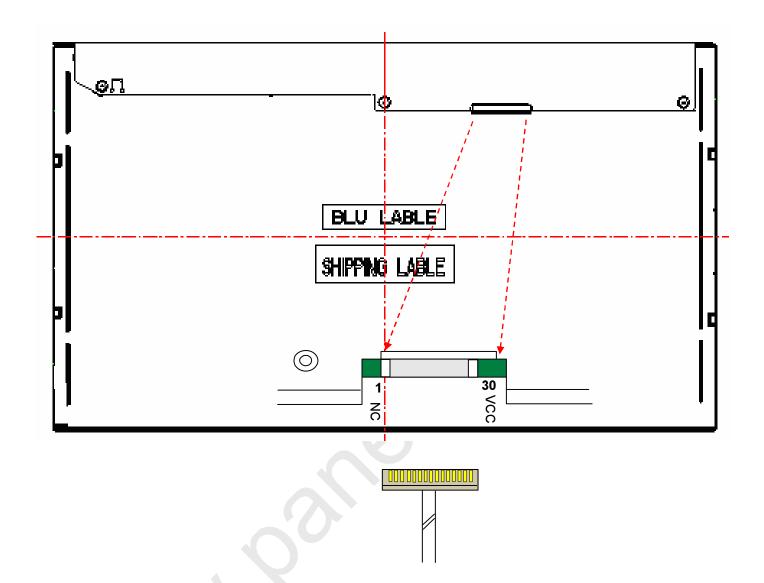
Note1: Start from left side





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Note2: Input signals of clock shall be the same timing.

Note3: Please follow TV VESA Pin Assignment.





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6.4 Timing Characteristics

Basically, interface timing described here is not actual input timing of LCD module but close to output timing of SN75LVDS82DGG (Texas Instruments) or equivalent.

Signal	Item	Symbol	Min	Тур	Max	Unit
	Period	Tv	776	808	1023	Th
	Active	Tdisp(v)	768	768	768	Th
V-section	Blanking	Tblk(v)	8	40	255	Th
	Period	Th	1470	1606	2047	Tclk
	Active	Tdisp(h)	1366	1366	1366	Tclk
H-section	Blanking	Tblk(h)	104	240	681	Tclk
	Period	Tclk	-	12.8	-	ns
Clock	Frequency	Freq	-	78	90	MHz
Frame Rate	Frame Rate	F	50	60	75	Hz

Note1 : DE mode only

Note2: Clock Frequency 90MHz(Max.)= 1470(H)*816(V)*75Hz

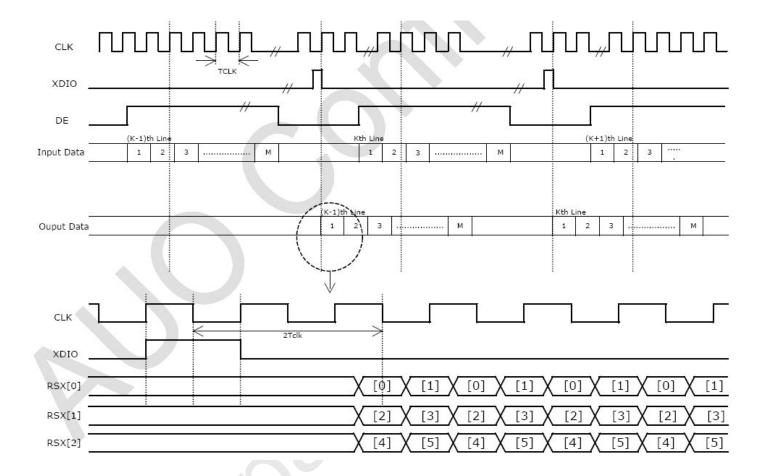




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6.5 Timing diagram





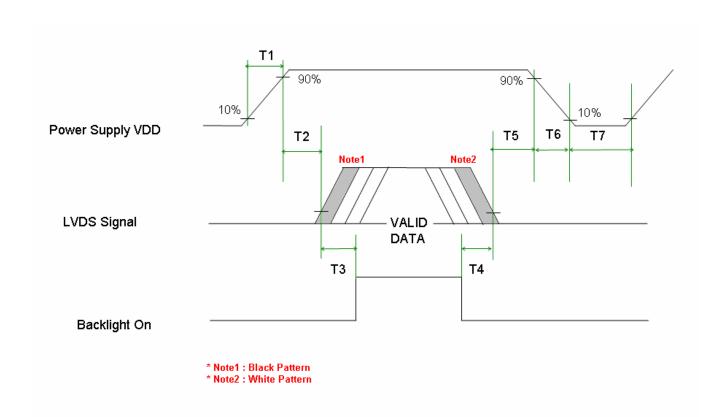
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6.6 Power ON/OFF Sequence

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VDD power and lamp on/off sequence are as follows. Interface signals are also shown in the chart. Signals from any system shall be Hi-Z state or low level when VDD is off.



Parameter		Value				
	Min.	Тур.	Max.	Unit		
T1	0.5	-	10	[msec]		
T2	0	40	50	[msec]		
Т3	200	-	-	[msec]		
T4	200	-	-	[msec]		
T5	0.5	16	50	[msec]		
Т6	-	-	100	[msec]		
Т7	1000	_	_	[msec]		





M185XW01 V6

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7.0 Connector & Pin Assignment

Physical interface is described as for the connector on module. These connectors are capable of accommodating the following signals and will be following components.

7.1 TFT LCD Module

Connector Name / Designation	Interface Connector / Interface card
Manufacturer	JAE or CHIEF LAND
Type Part Number	FI-XB30SRL-HF11(JAE) / 093F30-B0T01A(CHIEF LAND)
Mating Housing Part Number	FI-X30HL(JAE) (Locked Type) FI-X30H (JAE)(Unlocked Type)

7.1.1 Pin Assignment

Pin#	Signal Name	Pin#	Signal Name
1	NC	2	NC
3	NC	4	GND
5	RXIN0-	6	RXIN0+
7	GND	8	RXIN1-
9	RXIN1+	10	GND
11	RXIN2-	12	RXIN2+
13	GND	14	RXCLKIN-
15	RXCLKIN+	16	GND
17	RXIN3-	18	RXIN3+
19	GND	20	NC
21	NC	22	NC
23	GND	24	GND
25	GND	26	VCC
27	VCC	28	VCC
29	VCC	30	VCC





M185XW01 V6

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7.2 Recommend connector for Backlight Unit

This connector is mounted on the monitor system board for LED light-bar FFC mating.

Connector Name / Designation	Driver Board Connector
Manufacturer	ENTERY INDUSTRIAL CO., LTD
Mating Type Part Number	7083K-F10Y-00

7.2.1 Pin assignment

Pin no.	Signal name
1	No contact
2	IRLED (current out)
3	IRLED (current out)
4	IRLED (current out)
5	VLED (voltage in)
6	VLED (voltage in)
7	IRLED (current out)
8	IRLED (current out)
9	IRLED (current out)
10	No contact



M185XW01 V6

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8.0 Reliability Test

Environment test conditions are listed as following table.

Items	Required Condition	Note
Temperature Humidity Bias (THB)	Ta= 50□, 80%RH, 300hours	
High Temperature Operation (HTO)	Ta= 50□, 50%RH, 300hours	
Low Temperature Operation (LTO)	Ta= 0□, 300hours	*
High Temperature Storage (HTS)	Ta= 60□, 300hours	
Low Temperature Storage (LTS)	Ta= -20□, 300hours	
Vibration Test (Non-operation)	Acceleration: 1.5 Grms Wave: Random Frequency: 10 - 200 Hz Sweep: 30 Minutes each Axis (X, Y, Z)	
Shock Test (Non-operation)	Acceleration: 50 G Wave: Half-sine Active Time: 20 ms Direction: ±X, ±Y, ±Z (one time for each Axis)	
Drop Test	Height: 60 cm, package test	
Thermal Shock Test (TST)	-20□/30min, 60□/30min, 100 cycles	1
On/Off Test	On/10sec, Off/10sec, 30,000 cycles	
ESD (Electro Static Discharge)	Contact Discharge: \pm 8KV, 150pF(330 Ω) 1sec, 8 points, 25 times/ point.	2
	Air Discharge: ± 15KV, 150pF(330Ω) 1sec 8 points, 25 times/ point.	2
Altitude Test	Operation:10,000 ft Non-Operation:30,000 ft	

Note 1: The TFT-LCD module will not sustain damage after being subjected to 100 cycles of rapid temperature change. A cycle of rapid temperature change consists of varying the temperature from -20° C to 60° C, and back again. Power is not applied during the test. After temperature cycling, the unit is placed in normal room ambient for at least 4 hours before power on.

Note 2: EN61000-4-2, ESD class B: Certain performance degradation allowed

No data lost

Self-recoverable

No hardware failures.



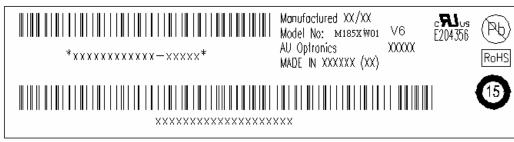


M185XW01 V6

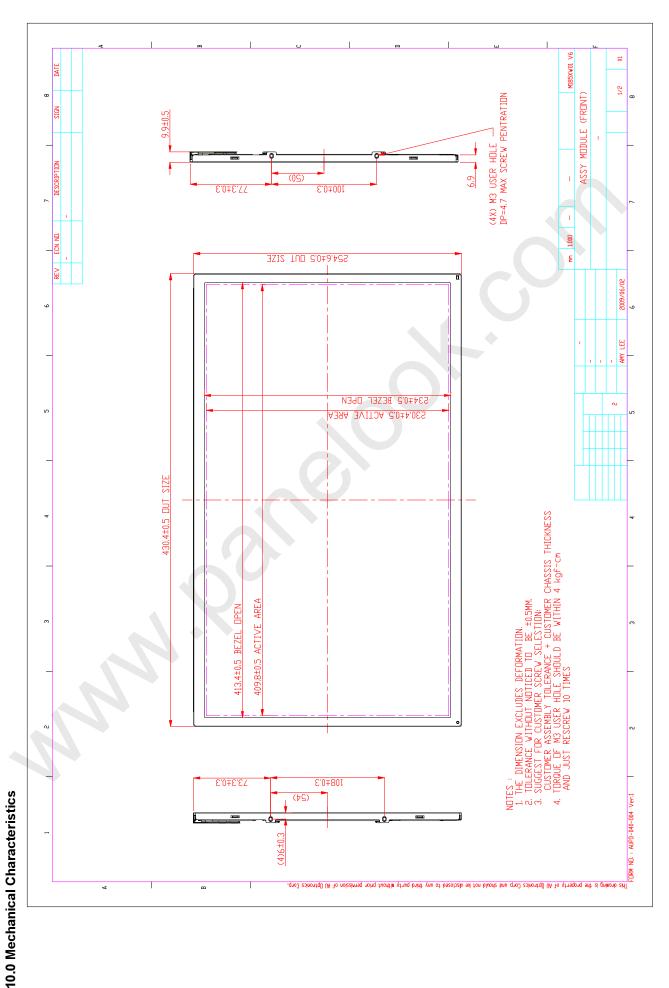
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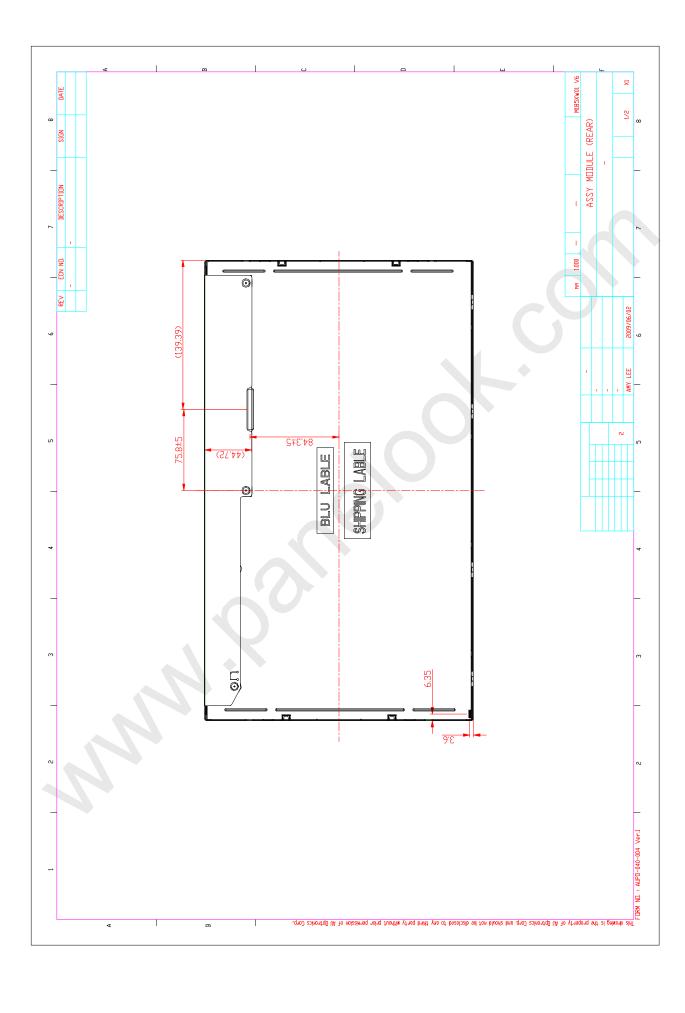
9.0 Shipping Label

The label is on the panel as shown below:



- Note 1: For Pb Free products, AUO will add 🔊 for identification.
- Note 2: For RoHS compatible products, AUO will add RoHS for identification.
- Note 3: For China RoHS compatible products, AUO will add for identification.
- **Note 4:** The Green Mark will be presented only when the green documents have been ready by AUO Internal Green Team.





②